

ABSTRACT

A composite optical component and its manufacturing method are disclosed. A holding member or an optical functional device is subjected to elastic deformation, with both of them fixed together, and the optical functional device is subjected to plastic deformation by heating to reduce stress between two components in such a way that the holding member and optical functional device will be slide-fitted with each other; sliding resistance between the optical functional device and enclosure per "b" in longitudinal direction of the optical component will be  $F \leq a/b \times S \times E$ ; or the optical functional device and holding member will be slide-fit by formation of one integral body in the mold, thereby preventing thermal distortion and distortion of the optical functional device due to recovery of elastic deformation of a reinforcing member, with the result that manufacturing costs can be reduced while a high degree of straightness and high surface precision are maintained.

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